Avery® UC 900 Ultimate Cast Series

White Diffuser – Permanent – Kraft
(formerly: A5000 Series Diffuser Films)
Revision: New Dated: 1/6/2009

Uses:

Avery Graphics™ UC 900 Diffuser Films are premium quality cast films which are specially designed for graphic applications involving illuminated light box applications. Avery Graphics™ UC 900 Diffuser Films are designed to provide partial light blocking to prevent “hot spots” in backlit signage.

Face: 2.1 mil (53 microns) cast film

Adhesive: Clear Permanent Acrylic

Liner: 78# Kraft

Durability: 5 years

Application Surfaces: Flat,

Features:

- Outstanding durability and outdoor performance
- Dimensionally stable liner for easy converting
- Excellent conversion on CAD plotters
- Easy cutting & weeding
- Excellent dimensional stability
- Excellent UV, temperature, humidity, and salt-spray resistance
- Eliminates tube light show through
- Reduces brightness of lighting

Conversion:

☒ Thermal Die-Cutting	☐ Thermal Transfer	☐ Solvent based inkjet
☒ Flat Bed Sign-Cut	☐ Screen Printing	☐ Mild/Eco Solvent inkjet
☒ Drum Roller Sign-Cut	☐ Cold Overlaminating	☐ UV inkjet
☒ Steel Rule Die-Cutting	☐ Water based inkjet	

Common Applications:

Architectural Signage	Backlit Rigid Signs	Outdoor advertising
Directional Signage	Flexible Signfaces	

Product Data Sheet

Avery® UC 900 Ultimate Cast Series

White Diffuser – Permanent - Kraft
(formerly: A5000 Series Diffuser Films)
Revision: New Dated: 1/6/2009

Physical Characteristics:

Property		Value
Caliper, face		2.1 mil (53 µm)
Caliper, adhesive		1.0mil (25 µm)
Dimensional stability		<0.0015”(0.4mm)
Tensile at Yield		4.0 - 8.0 lb/in (0.7–1.5 kg/cm)
Elongation		100% min.
Gloss		matte
Adhesion:	24 hr.	4.5 lbs/in (788 N/m)
Polycarbonate	1 week	4.6 lbs/in (805 N/m)
Signtech®	24 hr.	4.3 lbs/in (753 N/m)
Flexface FX	1 week	4.6 lbs/in (805 N/m)
Flammability		Self Extinguishing
Shelf-Life		1 year
Durability	Vertical Exposure	5 years
Min. Application Temperature		40°F (4°C)
Service Temperature		-20°- 175°F (-29°- 79°C) (Reasonable range of temperatures which would be expected under normal environmental conditions).
Chemical resistance		Resistant to most mild acids, alkalis, and salt solutions.

Important:
Information on physical and chemical characteristics are based on tests believed to be reliable. The values are intended only as a source of information. This information is given without guaranty and do not constitute a warranty. The purchaser should independently determine, prior to use, the suitability of any material for their specific purpose. (Data represents average values where applicable, and is not intended for specification purposes)

Warranty:
All statements, technical information and recommendations about Avery Dennison products are based upon tests believed to be reliable but do not constitute a guarantee or warranty. All Avery Dennison products are sold with the understanding that Purchaser has independently determined the suitability of such products for its purposes. Avery Dennison products are warranted to be free from defects in material and workmanship for either one year (or the period stated on the specific product information literature in effect at time of delivery, if longer) from date of shipment if said product is properly stored and applied. It is expressly agreed and understood that Avery Dennison's sole obligation and Purchaser's exclusive remedy under this warranty, under any other warranty, express or implied, or otherwise, shall be limited to repair or replacement of defective product without charge at Avery Dennison's plant or at the location of product (at Avery Dennison's election), or in the event replacement or repairs is not commercially practical, to Avery Dennison's issuing Purchaser a credit reasonable in light of the defect in the product.

Avery Dennison's liability for defective products shall not exceed the purchase price paid therefore by Purchaser and in no event shall Avery Dennison be responsible for any incidental or consequential damages whether foreseeable or not, caused by defects in such product, whether such damage occurs or is discovered before or after replacement or credit, and whether or not such damage is caused by Avery Dennison's negligence.

NO EXPRESS WARRANTIES AND NO IMPLIED WARRANTIES, WHETHER OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR USE, OR OTHERWISE (EXCEPT AS TO TITLE), OTHER THAN THOSE EXPRESSLY SET FORTH ABOVE WHICH ARE MADE EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, SHALL APPLY TO PRODUCTS SOLD BY AVERY DENNISON. AVERY DENNISON SPECIFICALLY DISCLAIMS AND EXCLUDES ALL OTHER SUCH WARRANTIES. NO WAIVER, ALTERATION, ADDITION OR MODIFICATION OF THE FOREGOING CONDITIONS SHALL BE VALID UNLESS MADE IN WRITING AND MANUALLY SIGNED BY AN OFFICER OF AVERY DENNISON.

Graphics & Reflective Products Division
250 Chester Street
Painesville, OH 44077

AnswerLine: 800-231-4654
www.averygraphics.com

Avery® UC 900 Ultimate Cast Series

White Diffuser – Permanent - Kraft
(formerly: A5000 Series Diffuser Films)
Revision: New Dated: 1/6/2009

Colors: Cross Reference

SPECIALTY SERIES - 90#	AVERY 100 SPECIALTY FILMS PERMANENT STAFLAT™	SPECIALTY SERIES - 90#	AVERY 100 SPECIALTY FILMS PERMANENT STAFLAT™
A5847-S White 30% Diffuser	UC 900-147-S White 30% Diffuser	A5848-S White 60% Diffuser	UC 900-148-S White 60% Diffuser

COMMENTS:
NOTE: Some color fade may occur in severe environmental areas. Reference IB 1.30 for durability guidelines.

Dimensional stability:

Is measured on a 6" x 6" (150 x 150 mm) aluminum panel to which a specimen has been applied; 72 hours after application the panel is scored in a cross pattern, exposed for 48 hours to 150℉ (65℃), after which the shrinkage is measured.

Adhesion:

(FTM-1, FINAT) is measured by peeling a specimen at a 180° angle from a stainless steel panel, 24 hours after the specimen has been applied under standardized conditions. Initial adhesion is measured 15 minutes after application of the specimen.

Flammability:

A specimen applied to aluminum is subjected to the flame of a gas burner for 15 seconds. The film should stop burning within 15 seconds after removal from the flame.

Temperature range:

A specimen applied to stainless steel is exposed at high and low temperatures and brought back to room temperature. 1 hour after exposure the specimen is examined for any deterioration. Note: Prolonged exposure to high and low temperatures in the presence of chemicals such as solvents, acids, dyes, etc. may eventually cause deterioration.

Chemical Resistance:

All chemical tests are conducted with test panels to which a specimen has been applied. 72 hours after application the panels are immersed in the test fluid for the given test period. 1 hour after removing the panel from the fluid, the specimen is examined for any deterioration.

Revisions are italicized

Graphics & Reflective Products Division
250 Chester Street
Painesville, OH 44077

AVERY DENNISON
AnswerLine: 800-231-4654
www.averygraphics.com